

## **PUBLIC HEALTH ENGINEER / TRAINEE**

**DEPARTMENT:** Tioga Co. Public Health Department (Environmental Health)  
**CLASSIFICATION:** Competitive  
**SALARY GRADE:** Management/Confidential  
**ADOPTED:** Revised 7/08; Tioga Co. Personnel & Civil Service

**DISTINGUISHING FEATURES OF THE CLASS:** The work involves responsibility for the planning, administration and performance of public health engineering duties concerned with the execution of one or more phases of the environmental health program. The work entails advising public officials or individuals on problems requiring professional public health engineering expertise, including measures for improvement and compliance with legal requirements, assisting in the promotion of public health through application of environmental health practices, assisting in the enforcement of the provisions of local and State health matters, and investigations of related conditions and problems. The work is performed under general supervision of the Public Health Director with leeway allowed for exercise of independent judgment in carrying out details of the work. Supervision is exercised over the work of subordinate technical and professional employees. Does related work as required.

### **TYPICAL WORK ACTIVITIES:**

- Provides oversight of the operation of the Environmental Health Division by monitoring the activities of and providing technical assistance to Public Health Sanitarians and Technicians relative to a variety of laws, rules and codes.
- Investigates, reports on and makes recommendations concerning public water supplies, sewage systems, bathing beaches and swimming pools, stream pollution, sanitary conditions of campgrounds, hotels or boarding houses, food, restaurant and general sanitation, air pollution, x-ray installations and abatement of public health nuisances;
- Maintains relationships and cooperates with State and Federal agencies concerning environmental and sanitary engineering programs and problems;
- Prepares a variety of records and reports related to the public health engineering program;
- Interprets the results of laboratory examinations of air, water, sewage, industrial wastes and other samples;
- May instruct local plant operators in water and sewage chemistry and bacteriology as applied in controlling the operation of water works and sewage treatment plants;
- Confers with local officials relative to public health engineering problems;
- Represents the Health Department on matters and problems related to environmental and sanitary engineering;
- Responds to and conducts investigations into hazardous material and oil spills, fish kills and other public health problems;
- Reviews realty subdivision plans to determine compliance with State realty subdivision laws;
- May review septic system plans to determine compliance with State environmental health standards.
- Performs special assignments relating to phases of public health engineering or environmental health as required;
- Participates in investigations of environmental health factors related to disease outbreaks.

## 2. Public Health Engineer-Trainee

### **FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES & PERSONAL CHARACTERISTICS:**

Thorough knowledge of the principles, practices and techniques of public health engineering and environmental health related to air pollution, x-ray installations, water supplies and purification, sewage disposal, stream pollution, milk and other foods, restaurants and public eating places, campgrounds, hotels, lodging and boarding houses, swimming pools, bathing beaches, schools and other places, insect and rodent control, public health nuisances and general sanitation; good knowledge of the Public Health Law, State and local Sanitary Code and other laws and rules related to the above subjects; good knowledge of public information and public relations techniques; skill in public health engineering techniques and practices; ability to plan and supervise the work of others; ability to establish and maintain effective working relationships with others; ability to analyze and organize data and prepare records and reports; ability to prepare reports and correspondence; ability to communicate effectively both orally and in writing; ability to prepare and deliver presentations in a clear, concise and articulate manner; initiative and resourcefulness in solving public health engineering problems; and physical condition commensurate with demands of the position.

### **MINIMUM QUALIFICATIONS:**

Graduation from a regionally accredited or New York State registered college or university with a Bachelor's degree in engineering **AND** have either passed the New York State Professional Engineer's In Training exam or be eligible to take the NYS Professional Engineer's In Training exam.

### **SPECIAL REQUIREMENTS:**

Due to the nature of work and the function of the position within the Public Health Department; once eligible, the Public Health Engineer / Trainee is expected to sit for the NYS Professional Engineer's examination. Upon successfully obtaining a PE license, the incumbent would be elevated to the title of Public Health Engineer without further examination under civil service.

Possession of a valid New York State driver's license or otherwise demonstrate their ability to meet the transportation needs of the job.